NAS 1.53/3:96-OSS-02

National Aeronautics
and Space Administration

February 15, 1996
NRA 96-OSS-02

Research Announcement

CONTIN

Ultraviolet, Visible, and Gravitational Astrophysics Suborbital Research Program

Letters of Intent Due: March 15, 1996

Proposals Due: May 13, 1996

0830-H-05 96-015808

OMB Approval No. 2700-0087

ULTRAVIOLET, VISIBLE, AND GRAVITATIONAL ASTROPHYSICS SUBORBITAL RESEARCH PROGRAM

NASA Research Announcement
Soliciting Proposals
for
Basic Research in the Development and Flight
of Suborbital Payloads for Ultraviolet, Visible,
and Gravitational Astrophysics

NRA 96-OSS-02

Issued: February 15, 1996

Letters of Intent due: March 15, 1996

Proposals due: May 13, 1996

Office of Space Science
National Aeronautics and Space Administration
Washington, DC 20546-0001

NASA RESEARCH ANNOUNCEMENT

ULTRAVIOLET, VISIBLE, AND GRAVITATIONAL ASTROPHYSICS SUBORBITAL RESEARCH PROGRAM

LIST OF APPENDICES

Appendices are available electronically via anonymous ftp or the World Wide Web from: ftp://ftp.hq.nasa.gov/pub/astrophysics/NRAs/UV_Visible/Suborbital or, by paper hardcopy (contact H. Hasan (202)358 0377, e-mail: hhasan@hq.nasa.gov).

Appendices:

A. Program Description

B. Instructions for Responding to NASA Research Announcements

C. Additional Guidelines Regarding Proposal Submission, Evaluation, Selection, and Implementation for This NRA

D. Cover Pages, Budget Forms, and Institutional Certifications

ULTRAVIOLET, VISIBLE, AND GRAVITATIONAL ASTROPHYSICS SUBORBITAL RESEARCH PROGRAM

This NASA Research Announcement (NRA) solicits proposals for basic supporting research and technology in the area of ultraviolet (UV), visible, and gravitational astrophysics as carried out by experiments flown as part of NASA's Suborbital Program. This NRA is for new development efforts, as well as for ongoing programs. Investigators currently receiving NASA support for ultraviolet, visible, or gravitational astrophysics suborbital experiments who are interested in continuing this support must respond to this NRA.

The purpose of the Ultraviolet, Visible, and Gravitational Astrophysics Suborbital Research Program is to provide for basic astrophysics research and technology development utilizing short duration suborbital flights. This program involves the development and flight of instrument payloads for conducting space astronomy in the spectral range of 100 to 7000 Angstroms, which covers the extreme ultraviolet, ultraviolet, and visible spectral regimes, and for the study of gravitational physics and general relativistic phenomena. This NRA solicits instrument payloads of two main types: (i) payloads and research programs to be conducted on sounding rocket fights or as balloon payloads; and (ii) payloads and research programs to be conducted on moderate duration, reusable platforms, such as the Astro-SPAS carrier or Spartan free-flying platforms. The latter type of program will be evaluated on a contingency basis, with no expectation of flight (see Appendix A for details).

Participation in this program is open to all categories of organizations, including industry, educational institutions, nonprofit organizations, corporations, NASA Centers, and other Government agencies. Appendix C provides specific information on foreign participation. A Letter of Intent to propose should be received by March 15, 1996, and proposals may be submitted at any time during the period ending May 13, 1996. Following peer panel evaluation, NASA will select proposals for funding and plan to announce the selection results by July 1996.

Funds for awards under this NRA are expected to be available subject to the annual NASA budget cycle. The Government's obligation to make awards is contingent upon the availability of appropriated funds and the receipt of proposals which the Government determines are acceptable for award under this NRA. It is presently

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expected that the total funding for the program will be at an annual level of about $3M. The Program presently supports 7 sounding rocket research projects and 2 experiments on the ORFEUS-SPAS II platform.

Further details relevant to the Ultraviolet, Visible, and Gravitational Astrophysics Suborbital Research Program are included in the appropriate appendices, which can be obtained by paper hard copy or, retrieved electronically via anonymous ftp or the World Wide Web from the addresses given below. **Appendix A** provides specific information relevant to the Ultraviolet, Visible, and Gravitational Astrophysics Suborbital Research Program opportunity. **Appendix B** contains the basic guidance needed for preparation of solicited proposals in response to an NRA. **Appendix C** provides additional information on the submission of proposals and their evaluation, selection, and implementation that augments the information contained in Appendix B. The information in Appendix C is applicable to this NRA only. **Appendix D** contains the title page and data sheets needed to prepare proposals responding to this NRA, together with the required budget forms and forms for institutional certifications. Please replicate these forms and use them in your submission.

IDENTIFIER:	NRA 96-OSS-02
SUBMIT LETTERS OF INTENT TO PROPOSE **EITHER** TO:	Dr. Hashima Hasan Code S National Aeronautics and Space Administration Washington, DC 20546-0001
OR ELECTRONICALLY TO:	hhasan@hq.nasa.gov
SUBMIT LETTERS OF INTENT BY:	March 15, 1996

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SUBMIT PROPOSALS TO:	UV/Visible Suborbital Program Code SZ-1 Suite 700 400 Virginia Avenue, SW Washington, DC 20024 Phone: (202) 554-4923 or (202) 554-2775
PROPOSAL DUE DATE:	May 13, 1996
NUMBER REQUIRED:	15 copies
SELECTING OFFICIAL:	Director, Astrophysics Division Office of Space Science
ANONYMOUS FTP OR WORLD WIDE WEB FROM:	ftp://ftp.hq.nasa.gov/pub/astrophysics/NRAs/UV_Visible/Suborbital
ADDITIONAL INFORMATION AND PAPER HARDCOPY OF NRA AND APPENDICES CAN BE OBTAINED FROM:	Dr. Hashima Hasan Code S National Aeronautics and Space Administration Washington, DC 20546-0001 Phone: (202) 358-0377 email: hhasan@hq.nasa.gov

Your interest and cooperation in participating in this effort are appreciated.

Wesley T. Huntress, Jr.
Associate Administrator
for Space Science

NASA Research Announcement (NRA)/Announcement of Opportunity (AO) Mailing List Update

If your current address is NOT up-to-date, please fill out this form completely.

This is the update form for the NASA Office of Space Sciences (OSS) NRA/AO mailing list. Please fill out CONTACT INFORMATION completely. Check only those that apply in Institution Type and Discipline. Fold the form, secure with tape, and mail it back to the address on the reverse side. Proper postage must be applied.

MUST CHECK ONE

Please check which announcements you would like to receive:

- ☐ 1. NASA Research Announcements (basic, non-flight, on-going research)
- ☐ 2. Announcements of Opportunity (specific space fight mission)

Must check one, please include code number from mailing label:

- ☐ 1. Please ***add*** my name to the mailing list.
- ☐ 2. Please ***remove*** my name from the mailing list (please attach mailing label)
- ☐ 3. Please ***update*** my current listing.

CONTACT INFORMATION If your address has changed or your mailing label is incorrect, please provide ***COMPLETE*** contact information.

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First Name: | MI: | Last Name:

Organization:

Division / Department:

Street:

City: | State: | Zip:

Telephone No: | Fax No:

E-Mail Address: _____ Internet Address: _____

Country: (foreign addresses, please specify)

Institution Type

(check only those that apply)

- ☐ 1. College or University
- ☐ 2. Minority College or University
- ☐ 3. Foreign Addressee
- ☐ 4. Minority Business
- ☐ 5. NASA HQs/Center
- ☐ 6. Nonprofit Corporation
- ☐ 7. Other Government Agency
- ☐ 8. Private Industry
- ☐ 9. Small Business

Societies:

- ☐ A. American Astronomical Society
- ☐ B. American Geophysical Union
- ☐ C. Others _____

Discipline:

(check only those that apply) (MUST CHECK AT LEAST ONE)

1. Astronomy and Astrophysics

- ☐ A. Theory and Modeling
- ☐ B. Instrumentation (Technology Dev)
- ☐ C. Laboratory Astrophysics
- ☐ D. Data Analysis (Archival)
- ☐ E. Observational Programs

2. Solar System Exploration

- ☐ A. Planetary Atmospheres and Astronomy
- ☐ B. Planetary Materials and Geochemistry
- ☐ C. Planetary Geology and Geophysics
- ☐ D. Instrument Development
- ☐ E. Origins of Solar Systems
- ☐ F. Exobiology

3. Space Physics

- ☐ A. Cosmic and Heliosphere Physics
- ☐ B. Solar Physics
- ☐ C. Magnetospheric Physics
- ☐ D. Iono-Thermo-Mesospheric Physics

4. Information Systems/Computer Science

- ☐ A. High Performance Computing and Networking
- ☐ B. Scientific Data Analysis and Visualization
- ☐ C. Science Data Storage and Management
- ☐ D. Software Technology

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END

10-18-96